

PRODUCT SPECIFICATIONS

Name	Anti-h cTnI 9703 SPTN-5
Specificity	Antibody recognizes human cardiac troponin I (cTnI)
Description	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
Product code	100181
Product buffer solution	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative
Shelf life and storage	12 months from manufacturing at 2-8 °C
Analyte description	Troponins form a complex of three regulatory proteins (troponin C, I and T) that are integral to muscle contraction in skeletal and cardiac muscles. Serum cardiac troponin tests can be used to help diagnose several different heart disorders, especially myocardial infarction.

PARAMETERS TESTED ON EACH LOT

Product appearance	Liquid, may turn slightly opaque during storage
Product concentration	5.0 mg/ml (+/- 10 %)
Immunoreactivity	80-120 % compared to the reference sample in an FIA test
IEF Profile	5.7 - 6.8
Purity	≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass	IgG ₁
Association rate constant	Not Determined (N/D)
Dissociation rate constant	N/D
Affinity constant	1.0 x 10 ⁹ 1/M
Determination method	SPR analysis (Biacore)
Determination antigen	Human cardiac troponin I (cTnI), HyTest (Cat 8T53, Lot 06/07)

Legal disclaimer

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Cross-reactivities N/D

Epitope The antibody recognizes a peptide representing cTnI amino acids 39–50.

Pair recommendations	CAPTURE ANTIBODY	DETECTION ANTIBODY
	9701, 9705, 9709	9703
	9703	9705, 9708, 9709
	9701+9705	9703+9707

Please note that pair recommendations are based on results obtained by our laboratory using cardiac troponin complex (I-C) as an antigen. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Product stability	TEMPERATURE, TIME	RESULT
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+25 °C, 21days	OK
	+35 °C, 21 days	OK
	+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous -

References -

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